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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-19-02** **Date: 22-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/29/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-17
Sample ID No	:	2017-04-19-02/01
Sample Type	:	Birla super 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-04-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.12	_
2	Finess by Air permeablity method (m^2/kg, Min)	286.7	225m^2/kg, Min
3	Density (gm/cc)	3.17	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer.
Kodigehalli Sub Division,
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****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-19-02** **Date: 18-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/29/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-17
Sample ID No	:	2017-04-19-02/01
Sample Type	:	Birla super 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-04-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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Yelahanka Zone, B.B.M.P.,
Bangalore.

****End of Report****

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-19-02** **Date:** 22-04-17

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/29/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-17

Sample ID No : 2017-04-19-02/03

Sample Type : Fine aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-04-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	59	59	5.9	94.1	90-100	90-100	90-100	95-100
3	2.36 mm	162	221	22.1	77.9	60-95	75-100	85-100	95-100
4	1.18 mm	184	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	233	638	63.8	36.2	15-34	35-59	60-79	80-100
6	300 micron	266	904	90.4	9.6	5-20	8-30	12-40	15-50
7	150 micron	43	947	94.7	5.3	0-10	0-10	0-10	0-15
8	Pan	53	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-19-02** **Date: 22-04-17**

Sample ID No : 2017-04-19-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.69	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

A+ W-8

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-19-02** **Date: 22-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/29/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-04-17
Sample ID No	:	2017-04-19-02/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100.0	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7495	7880	52.5	47.5	30-70
4	10 mm	4953	12833	85.6	14.4	10-35
5	4.75 mm	1645	14478	96.5	3.5	0-5
6	Pan	522	15000	100.0	0.0	---

Assistant Executive Engineer, B.B.M.P., Kodihalli Sub-Division, Yelahanka Zone, Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-19-02** **Date: 22-04-2017**

Sample ID No : 2017-04-19-02/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	1.58	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.2	_

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Prepared by
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****End of Report****

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-04-19-02** **Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/29/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-17
Sample ID No	:	2017-04-19-02/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex - E Clause 9.5 and 10)
Date of test	:	19-04-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	202	201	16281	33.260	2042.8	2060.2	Not less than 1800Kg/m^3
2	402	201	202	16322	33.890	2076.3		
3	401	203	202	16443	33.898	2061.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.040	33.830	3.58	3.19	Shall not be more than 10% by mass
2	34.160	33.152	3.04		
3	35.325	34.315	2.94		

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Lab ID : **CP-2017-04-19-02**

Sample ID No : **2017-04-19-02/04**

Date: 22-04-17

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	203	
3	402	203	202	
4	403	202	201	
5	401	201	203	
6	400	203	202	
7	399	201	203	
8	400	202	202	
9	400	201	201	
10	401	202	200	
11	403	203	201	
12	402	200	202	
13	401	203	203	
14	400	202	200	
15	404	201	201	
16	402	202	201	
17	402	200	203	
18	401	201	202	
19	401	203	200	
20	402	202	201	
Average of 20 blocks	**401**	**202**	**202**	

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Lab ID : **CP-2017-04-19-02** **Date: 22-04-17**

Sample ID No : 2017-04-19-02/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	200	80400	372.6	4.6	4.7
2	401	201	80601	381.3	4.7	
3	402	203	81606	382.4	4.7	
4	403	202	81406	392.4	4.8	
5	401	201	80601	379.5	4.7	
6	400	203	81200	370.6	4.6	
7	399	201	80199	377.5	4.7	
8	400	202	80800	392.5	4.9	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Page 3/3
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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-04-19-02**	**Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.	
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/29/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-04-17	
Sample ID No	:	2017-04-19-02/05	
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	19/04/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	200.51	3.239	7854	132.1	16.8	16.8	21.0
2	B	100.03	200.49	3.247	7857	135.2	17.2	17.2	21.5
3	C	100.01	200.50	3.345	7854	135.1	17.2	17.2	21.5

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****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-29-06** **Date: 04-05-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/29/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-17

Sample ID No : 2017-04-29-06/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M25	27/04/2017	04/05/2017	150.23 X 151.54 X 148.55	22766	8.326	448.5	19.7	19.8
2	Drain Concrete	M25	27/04/2017	04/05/2017	150.29 X 149.51 X 150.56	22470	8.289	438.2	19.5	
3	Drain Concrete	M25	27/04/2017	04/05/2017	150.26 X 150.57 X 150.75	22625	8.315	454.8	20.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-29-06** **Date: 25/05/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Improvements to road drain and footpath in cross roads of DCC Enclave layout in Ward no.08 Kodihalli.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/29/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-04-17

Sample ID No : 2017-04-29-06/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M25	27/04/2017	25/05/2017	150.12 X 149.45 X 150.56	22435	8.321	623.7	27.8	28.1
2	Drain Concrete	M25	27/04/2017	25/05/2017	150.82 X 150.64 X 150.38	22720	8.315	640.7	28.2	
3	Drain Concrete	M25	27/04/2017	25/05/2017	150.27 X 150.53 X 149.55	22620	8.301	640.2	28.3	

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